



INFORMATION TECHNOLOGY
Sample North Dakota Career Cluster Plan of Study
www.nd.gov/cte • www.careerclusters.org

Name _____
 School _____
 Date _____



SAMPLE OCCUPATIONS RELATING TO THIS CAREER CLUSTER	
Pathway	Occupations
NETWORK SYSTEMS	Network Administrator • Network Engineer • Network Technician • Network Security Analyst • Telecommunications Network Technician
INFORMATION SUPPORT & SERVICES	Data Administrator • Data Modeler • Help Desk Specialist • Computer Support Specialist • Computer Systems Analyst
INTERACTIVE MEDIA	Multimedia Specialist • Web Designer • Web Site Developer • Animator
PROGRAMMING & SOFTWARE DEVELOPMENT	Computer Programmer • Software Applications Specialist • Computer Software Engineer • Software Applications Tester

SUGGESTED COURSE OF HIGH SCHOOL STUDY						
It is suggested that students consider appropriate dual credit, articulation, or advanced placement opportunities for postsecondary credit.						
English (four units required to graduate)	Math (two units required to graduate)	Science (two units required to graduate)	Social Studies (three units required to graduate)	Physical Education (one unit required to graduate)	North Dakota Career & Technical Education and Other Electives (one unit of foreign or Native American language, fine arts, or career and technical education required to graduate)	Additional Suggested Learning Opportunities
<input type="checkbox"/> English I <input type="checkbox"/> English II <input type="checkbox"/> English III <input type="checkbox"/> English IV <input type="checkbox"/> Speech	<input type="checkbox"/> Algebra <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II	<input type="checkbox"/> Physical Science <input type="checkbox"/> Biology <i>or</i> <input type="checkbox"/> Chemistry	<input type="checkbox"/> World History <input type="checkbox"/> U.S. History <input type="checkbox"/> Government	<input type="checkbox"/> Physical Education <i>or</i> <input type="checkbox"/> Health <input type="checkbox"/> Physical Education	<input type="checkbox"/> Introduction to Information Technology <input type="checkbox"/> Programming Essentials <input type="checkbox"/> CIW Foundations <input type="checkbox"/> CIW Site Design <input type="checkbox"/> Computer Hardware & Operating System <input type="checkbox"/> Network Operating Systems <input type="checkbox"/> Cisco Semester 1 <input type="checkbox"/> Cisco Semester 2 <input type="checkbox"/> Cisco Semester 3 <input type="checkbox"/> Cisco Semester 4 <input type="checkbox"/> Windows XP Pro <input type="checkbox"/> Windows 2003 Server <input type="checkbox"/> Geographic Information Systems <input type="checkbox"/> Data Modeling and SQL	School-Based: <input type="checkbox"/> SkillsUSA <input type="checkbox"/> FBLA <input type="checkbox"/> TSA <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input type="checkbox"/> Internship <input type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project Community-Based: <input type="checkbox"/> Mentorship <input type="checkbox"/> Volunteer <input type="checkbox"/> Part-time Employment

SAMPLE NORTH DAKOTA POSTSECONDARY PROGRAMS RELATING TO THIS CAREER CLUSTER			
Pathway	Associate Degree or Less	Bachelors Degree	Masters Degree or More
NETWORK SYSTEMS	<input type="checkbox"/> Network Systems Support		
INFORMATION SUPPORT & SERVICES	<input type="checkbox"/> Computer Support Specialist <input type="checkbox"/> Operating Systems Technician	<input type="checkbox"/> Computer Technology Management	
INTERACTIVE MEDIA	<input type="checkbox"/> Webmaster/Web Designer	<input type="checkbox"/> Graphic Design Technology	
PROGRAMMING & SOFTWARE DEVELOPMENT		<input type="checkbox"/> Computer Science Programming <input type="checkbox"/> Software Engineer <input type="checkbox"/> Computer Science Programming	